

Title (en)

DNA SEGMENT ENCODING A GENE FOR A RECEPTOR RELATED TO THE EPIDERMAL GROWTH FACTOR RECEPTOR

Publication

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Application

EP 91900108 A 19901130

Priority

- US 9007025 W 19901130
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Abstract (en)

[origin: WO9108214A1] A DNA fragment distinct from the epidermal growth factor receptor (EGF-R) and *erbB-2* genes was detected by reduced stringency hybridization of v-*erbB* to normal genomic human DNA. Characterization of the cloned DNA fragment mapped the region of v-*erbB* homology to three exons with closest homology of 64 % and 67 % to a contiguous region within the tyrosine kinase domains of the EGF-R and *erbB-2* proteins, respectively. cDNA cloning revealed a predicted 148 kd transmembrane polypeptide with structural features identifying it as a member of the *erbB* family, prompting designation of the new gene as *erbB-3*. It was mapped to human chromosome 12q11-13 and was shown to be expressed as 6.2 kb transcript in a variety of normal tissues of epithelial origin. Markedly elevated *erbB-3* mRNA levels were demonstrated in certain human mammary tumor cell lines. These findings indicate that increased *erbB-3* expression, as in the case of EGF-R and *erbB-2*, plays a role in some human malignancies.

IPC 1-7

C07H 15/12; **C12Q 1/68**; **G01N 33/566**; **A61K 35/14**; **A61K 39/42**

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [A] PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE USA vol. 83, no. 23, December 1986, WASHINGTON DC, US pages 9129 - 9133 J. DREBIN ET AL. 'Inhibition of tumor growth by a monoclonal antibody reactive with an oncogene-encoded tumor antigen.'
- [XP] PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE USA vol. 87, no. 13, July 1990, WASHINGTON DC, US pages 4905 - 4909 G. PLOWMAN ET AL. 'Molecular cloning and expression of an additional epidermal growth factor receptor-related gene.'
- [XP] JOURNAL OF CELLULAR BIOCHEMISTRY, SUPPLEMENT 14B, 1990, NEW YORK, US page 276 M. KRAUS ET AL. 'Isolation and characterization of *erbB-3* define its predicted protein as a new member of the *erbB* EGF receptor tyrosinase kinase subfamily.'
- See references of WO 9108214A1

Cited by

US9783456B1; US7919098B2

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